

DSDC

DC rated Plug and Receptacle

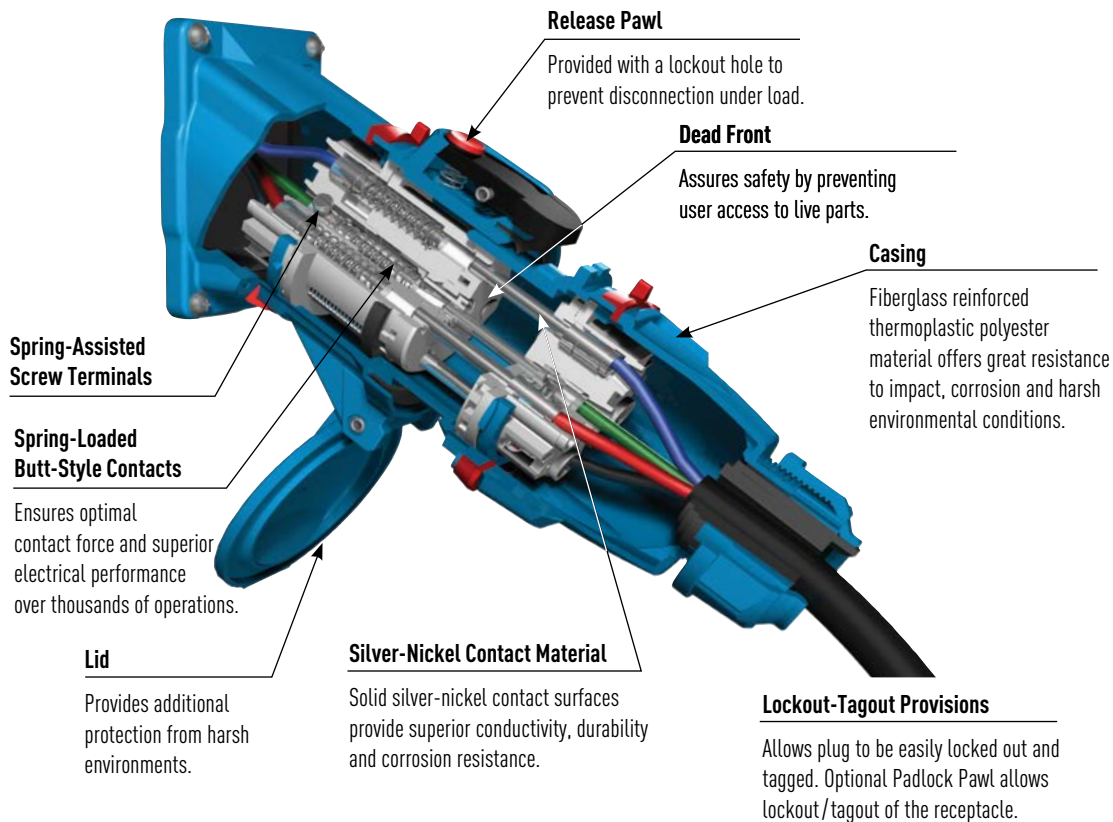
Main Advantages

- ▶ Rated for Direct Currents
- ▶ Standard locking feature enables locking in the connected and disconnected mode
- ▶ Robust Metal or Poly construction



- ▶ **Features and Ratings** p. 116
- ▶ **DSDC** p. 117

PRODUCT FEATURES



General Ratings

Amperage	130 VDC: 20 to 200 A
	250 VDC: 20 to 200 A
	600 VDC: 15 to 100 A
	750 VDC: 10 to 30 A
Voltage	130 VDC, 250 VDC, 600 VDC or 750 VDC
Environmental	Type 3R, IP54/IP55**, Type 4X optional
Temperature	min -40°F/max 140°F

** IP54 rated when receptacle and plug are mated, when not mated receptacle alone is IP55 rated provided that the lid is latched closed.

Highlighted Feature

Receptacle Lockout Hole



All DSDC models are provided with a lockout hole in the pawl. This feature allows locking of the receptacle to prevent accidental disconnection of the plug under load.

Operating Instructions



When a DSDC is under load the receptacle should be locked to prevent disconnection.



If the DSDC is NOT under load, it can be disconnected by pressing the pawl.



A quarter turn of the plug allows it to be totally withdrawn from the receptacle. This is done in complete safety as the circuit is already dead.



The plug and the receptacle are separated. The safety shutter prevents access to live parts.

5 To reconnect, insert plug into receptacle, rotate 30° clockwise, and apply insertion force.

Listings

Category	UL	CSA
Plugs and Receptacles	UL 1682	C22.2 No. 182.1

CE ratings available upon request.

Standard Duty Plugs & Receptacles 130V, 250V, 600V, 750V

UL/CSA Ratings

- **Max Amperage & Voltage**
200 A, 750 VDC
- **Current Interruption Capability**
Not for current interrupting
- **Environmental Ratings**
Type 3R, IP54/IP55*
* IP54 when the plug & receptacle are mated. IP55 on the receptacle alone when the lid is latched closed.
- **Temperature Range**
Min -40°F/Max 140°F
See pg 258 for temps below -15°F.
- **Wiring Capacity**
DSDC1 Min 14 AWG Max 8 AWG
DSDC3 Min 12 AWG Max 4 AWG
DSDC6 Min 10 AWG Max 2 AWG
DSDC9 Min 4 AWG Max 2/0 AWG
DSDC2 Min 4 AWG Max 4/0 AWG
- **Certifications**
UL 1682 (130, 250 & 600 VDC)
CSA 182.1 listed up to 250 VDC
750 VDC devices pass UL testing, but are outside the scope of the standard so they cannot be listed.

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American UL/CSA Configurations

Voltage	Polarity	Part #		Part #		
		Poly	Metal	Poly	Metal	
DSDC1	130V/20 A	2P+G	33-14109	-	33-18109	-
DSDC3	130V/30 A	2P+G	33-34109	-	33-38109	-
DSDC6	130V/60 A	2P+G	33-64109	37-64109	33-68109	37-68109
DSDC9	130V/100 A	2P+G	33-94109	37-94109	33-98109	37-98109
DSDC2	130V/200 A	2P+G	-	37-24109	-	37-28109
DSDC1	250V/20 A	2P+G	33-14209	-	33-18209	-
DSDC3	250V/30 A	2P+G	33-34209	-	33-38209	-
DSDC6	250V/60 A	2P+G	33-64209	37-64209	33-68209	37-68209
DSDC9	250V/100 A	2P+G	33-94209	37-94209	33-98209	37-98209
DSDC2	250V/200 A	2P+G	-	37-24209	-	37-28209
DSDC1	600V/15 A	2P+G*	33-14058-S82	-	33-18058-S82	-
DSDC3	600V/30 A	2P+G*	33-34058-S82	-	33-38058-S82	-
DSDC6	600V/50 A	2P+G*	33-64058-S82	37-64058-S82	33-68058-S82	37-68058-S82
DSDC9	600V/60 A	2P+G*	33-94058-S82	-	33-98058-S82	-
DSDC2	600V/100 A	2P+G*	-	37-24058-S82	-	37-28058-S82
DSDC1	750V/10 A	2P+G*	33-14158-S69	-	33-18158-S69	-
DSDC3	750V/20 A	2P+G*	33-34158-S69	-	33-38158-S69	-
DSDC6	750V/30 A	2P+G*	33-64158-S69	37-64158-S69	33-68158-S69	37-68158-S69

Notes: * Type 4x as standard
* Polarity for connection purposes. Devices have additional contacts used for load splitting. See information below.

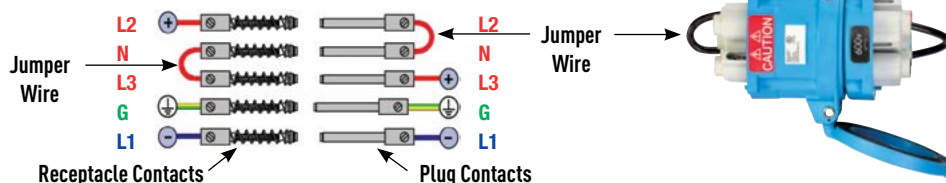
Receptacle Options	Part #
Type 4X Watertightness	Recept # - 4X
Metal Pawl (on poly receptacle)	Recept # - 824
Closed Lid Configuration	Recept # - NC

DSDC2 models are also provided with a screw locking pawl to provide an alternative means of preventing accidental disconnection under load.

Inlet Options	Part #
Type 4X Watertightness	Inlet # - 4X
With no Lockout Hole	Inlet # - A155

Jumpers provided on 600 VDC and 750 VDC models

Jumpers are required on all 600 VDC and 750 VDC models as a safety precaution to split the arc in case of accidental disconnection under load. Plugs and receptacles are provided with jumpers installed. Receptacles utilize a jumper between N and L3 poles. Plugs utilize a jumper between L2 and N poles.



! See pages 235-244 for detailed information on these options

INSTALLATION ACCESSORIES

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES



Poly Handle



Poly Handle

DSDC1, 3, 6 shown



Poly Handle

DSDC9, 2 shown

	Cable Range	Poly Handle	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT
DSDC1	.20 - .82"	512P0D21	512P0N05	512P0N07	512P0N10	512P0N12	-	-	-
DSDC3	.39 - 1.18"	513P0D30	513P0N05	513P0N07	513P0N10	513P0N12	-	-	-
DSDC6	.51 - 1.38"	514P0D35	514P0N05	514P0N07	514P0N10	514P0N12	514P0N15	-	-
DSDC9	-	-	-	515P0N07	515P0N10	515P0N12	515P0N15	515P0N20	-
DSDC2	-	-	-	-	-	-	516P0N15	516P0N20	516P0N25

For metal accessories, view equivalent DS series devices.

- Notes:**
- Finger draw plates are recommended for easier connector closure on cord to cord assemblies.
 - For available cord grips, see pg 167.

BOXES



Metal Box

DSDC1, 3, 6 shown



Metal Box

DSDC9, 2 shown

	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT
DSDC1	7T1F0N05	7T1F0N07	7T1F0N10	7T1F0N12	-	-	-
DSDC3	7T1F0N05	7T1F0N07	7T1F0N10	7T1F0N12	-	-	-
DSDC6	-	-	7T4F0N10	7T4F0N12	7T4F0N15	7T4F0N20	-
DSDC9	-	-	-	7T5F0N12	7T5F0N15	7T5F0N20	7T5F0N25
DSDC2	-	-	-	-	7T6F0N15	7T6F0N20	7T6F0N25

NPT on top or bottom (if rotated).
For other NPT configurations, contact customer service.



Poly Conduit Box For poly devices only

	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT
DSDC1	512B3N05	512B3N07	-	-
DSDC3	513B3N05	513B3N07	513B3N10	-
DSDC6	514B3N05	514B3N07	514B3N10	514B3N12

For DSDC dimensions use the cross reference chart below and refer to DS dimensions on pgs 55-56.

Dimensions	
DSDC1	same as DS20
DSDC3	same as DS30
DSDC6	same as DS60
DSDC9	same as DS100
DSDC2	same as DS200

ANGLES



	Poly 30° Angle	Metal 30° Angle	Metal Angle FS/FD Box 30°	Metal Straight Adapter	Poly 70°** Wall Box
DSDC1	512M3	592M3	792M3FS*	592M0	512C7000
DSDC3	513M3	593M3	793M3FS*	593M0	513C7000
DSDC6	514M3	594M3	-	594M0	514C7000
DSDC9	515M3	595M3	-	595M0	-
DSDC2	-	596M6 (60°)	-	596M0	-

* MAFS2 and MAFS3 base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.
** 70° boxes do not have pre-drilled entry locations. Contact customer service if factory drilling is required.

MISC. ACCESSORIES



* Set of Two (2)



For Inlets/Plugs Only



For Inlets/Plugs Only



For Inlets/Plugs Only

	Finger Drawplates	Protective Inlet/Plug Cap	Poly Padlockable Inlet/Plug Cap	Spring-Loaded Padlockable Inlet/Plug Cap
DSDC1	61-3A346	31-1A426	DS1PC	31-1A226
DSDC3	61-6A346	31-3A426	DS3PC	31-3A226
DSDC6	31-6A346	31-6A426	DS6PC	31-6A226+
DSDC9	**	31-9A426	DS9MC***	-
DSDC2	**	39-2A426	DS2MC***	-

* Recommended for cord to cord assembly applications, for easier connector closure.
** An easy closing mechanism is standard on DSDC9 and DSDC2.
*** Padlockable Cap Aluminum - Not pictured.
+ For metal devices, replace "31" prefix with "39". Order with -A155 suffix.